

Thermal Spray Wires Technical Bulletin

SG 670

Ni 5Al 5 Mo

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Applicable for:  Arc Spray  Flame Spray

PRODUCT INFORMATION

Nickel-Aluminum-Molybdenum wire produces dense, well-bonded coatings with excellent wear resistance and good corrosion resistance. This wire is widely used for machine repair, dimensional resoration and wear resistance applications.

NOMINAL CHEMICAL COMPOSITION (%)

Ni	Bal
Al	5.5
Mo	5.0
TAO	1.0

WIRE PROPERTIES

∅ Wire	1/16 inch (1.6mm)
Morphology	Cored

COATING FEATURES (nominal data)

Hardness	HRB 75-80
Bond Strength	7500 PSI
Coverage	0.7 oz/ ft ² / mil
Deposition Efficiency	75%

PACKAGING

Spool	Paperboard
Weight	25 lbs ± 1 lb.

APPLICATIONS

- Bond Coatings
- Part Restoration
- Wear Resistant Coatings
- Fretting Resistance

SURFACE PREPERATION

Surface should be clean, white metal, with no oxidation, oil, grease or dirt on the surface. Recommended method of preperation is to grit blast with 24 mesh aluminum oxide, rough grind, or rough machine in a lathe. Note: It is best not to handle the surface after cleaning.

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See the correct Safety Data Sheet (SDS) for this material according to the country where wire will be used. Contact our team for more information.